

This product contains hydrogen sulfide and nitrogen, substances subject to the Pennsylvania Worker and Community Right-To-Know Act.

PRODUCT IDENTITY

LABEL IDENTITY - MSA P/N 806253 Calibration Check Gas, 15 ppm Hydrogen Sulfide in Nitrogen
CHEMICAL NAME - Hydrogen Sulfide, Nitrogen Mixture
ADDITIONAL IDENTITIES - MSA P/N 806253 Calibration Gas
FORMULA - H₂S + N₂

APPLICABLE CHEMICAL CONTENTS

	<u>%</u>	<u>TWA</u>	<u>STEL</u>	<u>OSHA PEL</u>
Hydrogen Sulfide (CAS 7783-06-4) (ACGIH 2010)	0.0015	1 ppm	5 ppm	10 ppm
Nitrogen (CAS 7727-37-9)	Balance	None		

NOTE: Gas Under Pressure, 500 PSIG at 70°F, Approx. 58 Liters Gas at Atmospheric Pressure

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR - Colorless, Malodorous Gas
BOILING POINT - -320.4°F (-195.8 °C) SPECIFIC GRAVITY (air = 1) @70°F (21.1 °C): 0.906
VAPOR PRESSURE @70°F (21.1 °C): N/A* PERCENT VOLATILE BY VOLUME - N/A*
GAS DENSITY @32°F (0 °C) and 1 atm: 0.072 lbs/ft³ (1.153 kg/ m³)
VAPOR DENSITY (AIR = 1) - Approx. 1
SOLUBILITY IN WATER -
Hydrogen sulfide - 437 cm³/100 ml (0°C)
Nitrogen - 2.3 cm³/100 ml (0°C)

N/A - Not Applicable

PHYSICAL HAZARD INFORMATION

PHYSICAL HAZARD - Compressed gas, 500 PSIG at 70°F
CONDITIONS OR MATERIALS TO AVOID - None
FLASH POINT - N/A LEL - N/A UEL - N/A
EXTINGUISHING MEDIA - This calibration gas mixture is not flammable
SPECIAL FIRE FIGHTING PROCEDURES - See next item
UNUSUAL FIRE AND EXPLOSION HAZARDS - Gas Under Pressure, 500 PSIG at 70°F. Do Not Exceed 120°F.

HEALTH HAZARDS

HEALTH HAZARDS - LC₁₀ 800 ppm/5 minutes (H₂S). No effects known below 10 ppm H₂S.

Note: this gas mixture contains 10 ppm chlorine. Additionally, because this gas mixture contains less than 19.5% oxygen if this mixture is released in a small poorly ventilated area (confined space) an oxygen deficient environment may occur.

SIGNS AND SYMPTOMS OF EXPOSURE –

- Hydrogen sulfide is an irritant of the eyes and respiratory tract.
- Oxygen deficient atmosphere: Individuals breathing such an atmosphere may experience symptoms which include headaches, ringing in the ears, dizziness, drowsiness, unconsciousness, nausea, vomiting and depression of all the senses. Under some circumstances of over-exposure, death may occur.

PRIMARY ROUTES OF ENTRY - Inhalation, Eyes

TARGET ORGANS – Hydrogen sulfide is an irritant of the eyes and respiratory tract.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE - No Information

EXPOSURE LIMITS - ACGIH 2010: H₂S 1ppm, STEL 5ppm; OSHA PEL 10 ppm.

CARCINOGENICITY DATA - Component gases are not listed by NIOSH RTECS, OSHA, NTP or IARC.

EMERGENCY AND FIRST AID PROCEDURES - Remove From Exposure

SAFE HANDLING AND USE

HYGIENIC PRACTICES - Avoid Breathing Gas

PROTECTIVE MEASURES DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT - N/A

PROCEDURES FOR SPILL OR LEAK CLEANUP - Ventilate Area. Avoid Breathing Gas.

WASTE DISPOSAL - Do not puncture or incinerate cylinder. Before discarding cylinder, slowly release contents to a safe exhaust.

STORAGE - Store in a cool, dry, well-ventilated area. Do not exceed 120°F.

CONTROL MEASURES

PERSONAL PROTECTIVE EQUIPMENT - Due to the limited amount of gas in the cylinder, and the low release rate employed in instrument calibration, respiratory protection is not indicated under conditions of intended use.

ENGINEERING CONTROLS - Mechanical ventilation is suitable.

WORK PRACTICES - Avoid breathing gas. Use in well-ventilated areas. Follow the calibration procedure detailed in the MSA instruction manual provided with the instrument under calibration.

DATE OF PREPARATION - Rev. 7., October 2010

WARNING: This is a hazardous chemical product. By following the directions and warnings provided with this product, the hazards associated with the use of this product can be greatly reduced but never entirely eliminated. Mine Safety Appliances Company makes no warranties, expressed or implied, with respect to this product and EXPRESSLY DISCLAIMS THE WARRANTY OF MERCHANTABILITY AND ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. Users assume all risks in handling, using or storing this product.